Contents Vol. 29

Vol. 29, Nos. 1+2

Modeling of a hydrocracking reactor
S. Mohanty, D.N. Saraf and D. Kunzru (Kanpur, India) 1

Basic studies of deactivation of hydrotreating catalysts with anthracene
B.D. Muegge and F.E. Massoth (Salt Lake City, UT, U.S.A.) 19

Review
Catalytic gasification of coals — Features and possibilities
Y. Nishiyama (Sendai, Japan) 31

Catalytic conversion of nitrogen compounds in gasification gas
J. Leppälahti, P. Simell and E. Kurkela (Espoo, Finland) 43

Reactivity and susceptibility to porosity development of coal maceral chars on steam and carbon dioxide gasification
F. Czechowski and H. Kidawa (Wrocław, Poland) 57

Gasification reactivities of coal macerals
Y.-H. Huang (Shanghai, P.R. China), H. Yamashita and A. Tomita (Sendai, Japan) 75

The characterization of the kerogen of Chattanooga oil shale. Part I — The oxidation of Chattanooga Shale with boiling perchloric acid
B.J. Stanton, R.J. Morris and C.W. McGowan (Cookeville, TN, U.S.A.) 85

The characterization of the kerogen of Chattanooga oil shale. Part II — Analysis of oxidation products and proposal of a model for the structure of kerogen in Chattanooga oil shale
B.J. Stanton, D.J. Davidson and C.W. McGowan (Cookeville, TN, U.S.A.) 97

Organic compounds released in fluidized-bed drying of peat, bark and lignite
L. Fagernäs, V. Arpiainen and E. Kuoppala (Espoo, Finland) 107

Deashing characteristics in solvolysis coal liquefaction process
T. Sakaki, M. Shibata, S. Arita, H. Hirosue (Tosu, Japan), H. Honda (Tokyo, Japan) and S. Morooka (Fukuoka, Japan) 199

Sonically enhanced beneficiation of Illinois No. 6 coal
B.J. Slomka and W.H. Buttermore (Ames, IA, U.S.A.) 133

Short Communication
Studies of the effects of *O*-alkylation on the extractability of demineralized and reduced Polish coals
H. Wachowska, M. Kozłowski, J. Thiel and I. Dunajska-Szopka (Poznan, Poland) 143

Vol. 29, No. 3

Effect of coal-derived-liquid solvent on the hydrogenation and restrictive diffusion of nickel porphyrins
C.H. Tsai, F.E. Massoth, S.Y Lee and J.D. Seader (Salt Lake City, UT, U.S.A.) 153

Effect of coal rank and quality on two-stage liquefaction
J.M. Lee and C.E. Cantrell (Wilsonville, AL, U.S.A.) 171

Iron compounds and iron catalysts: Activity in reactions relevant to direct coal liquefaction
M. Farcasiu, C. Smith, V.R. Pradhan and I. Wender (Pittsburgh, PA, U.S.A.) 199

Characterization of iron phases in coal ash from thermal power plant
S.P. Taneja (Haryana, India), K.S. Harchand (Ludhiana, India), D. Raj (Ludhiana, India) and K. Chandra (Roorkee, India) 209

Brown coal conversion to liquid products at the ST-5 pilot plant
A.A. Kricho, A.S. Maloletnev, B.P. Sizykh, M.K. Yulin (Moscow, U.S.S.R.) and A.A. Garkusha (Novomoskovsk, U.S.S.R.) 219

Oxidation kinetics of a Turkish oil shale
A.M. Tuğluhan, M.T. Mehmetoğlu and S. Bagcı (Ankara, Turkey) 231

Newsnotes 241
Author Index Volume 29 251